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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/666,091	09/19/2003	Brenton A. Baugh	10030386-1	8994
75	90 08/26/2004		EXAM	INER
ALGILENT TECHNOLOGIES, INC.			CLARK, SHEILA V	
Legal Department, DL429 Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 7599			2815	
Loveland, CO 80537-0599			DATE MAILED, 09/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)				
Office Action Commence	10/666,091	BAUGH ET AL.				
Office Action Summary	Examiner	Art Unit				
	S. V. Clark	2815				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10,12-14 and 16-19</u> is/are rejected.						
7)⊠ Claim(s) <u>11,15 and 20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

Application/Control Number: 10/666,091

Art Unit: 2815

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 6, 7, 12, are rejected under 35 U.S.C. 102(b) as being anticipated by De Poorter.

De Poorter shows in figure 1 an optical device having a sub-mount 2, 14, 1 and Col, 4, lines13-16 teach that conductors 15 are connected to laser diode 3 via mounting block 1, 2 and wire connections (not shown). Cap 11 is shown attached to said sub-mount 1, 2 and enclosed optical element 3 where and wherein said cap has a window (optical element) in the path of the optical signal of the optical device.

Laser 3 is shown to be a side emitter. Internal and external bonding pads are inherently associated with the via connections of conductor 15.

Use of active other active circuitry is taught in Col. 5, line 30.

The steps of electrically connecting, fabricating and bonding are deemed to be inherently taught by De Poorter.

Claims 1, 6, 7, 8, 9, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Shin.

Shin shows in figure 4 at least one optical device 52 having a sub-mount 41 having via holes containing conductors 58. Cap 54 is shown attached to said sub-mount 41 and enclosed optical said element and wherein said cap has a

Application/Control Number: 10/666,091

Art Unit: 2815

window 56 (optical element) in the path of the optical signal of the optical device.

Reflector 57 is also taught formed on the top wall of the cap.

Internal and external bonding pads are inherently associated with the via connections of conductor 15.

Use of active other active circuitry 42 is taught.

The steps of electrically connecting, fabricating and bonding are deemed to be inherently taught by Shin.

Claims 1-10, 12-13, 16 are rejected under 35 U.S.C. 102(a) as being anticipated by Bhandarkar.

Bhandarkar shows in figure 3C an optical device having a sub-mount 302 having a laser diode 310 disposed. Cap 330 is shown attached to said sub-mount and enclosing said laser and having a reflector 336 in the path of the optical signal of the optical device.

Laser 3 is shown to be a side emitter. Internal and external bonding pads are shown in figures 9B, 9C relative to connections of boning wires 312 and conductor 914.

Use of active other active circuitry 320 is taught in Col. 5, line 30 and said cap is taught to be formed of silicon (i.e. see paragraph (0028), line 6.

The steps of electrically connecting, fabricating and bonding are deemed to be inherently taught by Bhandarkar see paragraph (0040).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to

Art Unit: 2815

be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bhandarkar.

Paragraph (0035) of Bhandarkar teaches that a recess or depression is formed in a substrate or cap. Bhandarkar failure to limit creation of the recess or depressions by a particular means suggests that said depressions may be performed by conventional means well known to one of ordinary skill in this art. It would have been considered well known to a workman having ordinary skill in this are that the depressions may by be formed by such conventional means as etching which is typically performed to create depressions, recesses, holes and grooves.

Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhandarkar in view of The Admitted prior art in the disclosure on page 1.

Bhandarkar teaches the plurality of laser to a plurality of sub-mount area of a first wafer in figures 3D and 3E except for dividing to separate the packages.

The admitted prior art in the disclosure on page 1 of the instant disclosure teaches that in wafer processing it is well known to cut wafers into separate individual lasers. It would have been therefore obvious to one having ordinary skill in this art to divide the structure of Bhandarkar to separate into individual laser packages as is well known in wafer processing.

Claims 1-10, 12-14, 16-19 are rejected.

Application/Control Number: 10/666,091

Page 5

Claims 20, 15, 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to

S. V. Clark at telephone number (571) 272-1725.

S. V. Clark

Primary Examiner

Art Unit 2815

August 20, 2004

Art Unit: 2815